

Claims:

1. A fastening device with fasteners to close an open end, comprising: a first fastener provided on one of opposite surfaces of the open end and comprising at least a pair of rib tracks and a groove track defined between the rib tracks; and a second fastener provided on a remaining surface of the opposite surfaces of the open end and comprising at least a pair of rib tracks and a groove track defined between the rib tracks, so that at least one rib track of one of the first and second fasteners engages with a groove track of another of the first and second fasteners.
2. The fastening device with the fasteners according to claim 1, further comprising:
an adhesive agent, having a predetermined adhesive strength, applied to a bottom surface of the groove track of each of the fasteners.
3. The fastening device with the fasteners according to claim 1 or 2, wherein the first and second fasteners each comprise a plurality of rib tracks, and a plurality of groove tracks defined between the rib tracks, so that each of the rib tracks of one of the first and second fasteners engages with one of the groove tracks of another of the first and second fasteners.
4. The fastening device with the fasteners according to claim 1 or 2, wherein the first and second fasteners engage with each other while a width and a height of each of the rib tracks of one of the first and second fasteners respectively correspond to a width and a depth of the groove track of another of the first and second fasteners.
5. The fastening device with the fasteners according to claim 1 or 2, wherein the fasteners are attached at rear surfaces thereof on the opposite surfaces of the open end by welding.
6. The fastening device with the fasteners according to claim 5, further comprising:

a plurality of welding assistant blades extending from predetermined positions of the rear surface of each of the fasteners in opposite latitudinal directions of the fastener.

5 7. The fastening device with the fasteners according to claim 6, further comprising:

a space defined between the rear surface of the fastener placed between the welding assistant blades and an associated surface of the open end; and at least one support ridge provided in the space.

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8. The fastening device with the fasteners according to claim 6, wherein one of the welding assistant blades extends from a predetermined position which is spaced inward from a reverse action reference point of the rear surface of the fastener by integer multiples of the width of each of the tracks, and a remainder of
15 the welding assistant blades extends from a forward action reference point of the rear surface of the fastener.

9. The fastening device with the fasteners according to claim 1 or 2, wherein each of the fasteners is provided by individually assembling the rib tracks
20 and the groove track.

10. The fastening device with the fasteners according to claim 1 or 2, wherein the rib tracks and the groove track each have a rectangular cross-section.

25 11. The fastening device with the fasteners according to claim 1 or 2, wherein the rib tracks and the groove track each have a trapezoidal cross-section.

12. The fastening device with the fasteners according to claim 1 or 2, wherein the rib tracks and the groove track each have a cross-section rounded at
30 each corner thereof.

13. The fastening device with the fasteners according to claim 2, further comprising:

a groove provided on a lower surface of each of the rib tracks or on a
35 lower surface of the groove track.

14. The fastening device with the fasteners according to claim 2, wherein the bottom surface of the groove track is uneven.

5 15. A fastening device with fasteners to close an open end, comprising: a first fastener provided on one of opposite surfaces of the open end and comprising a plurality of ribs provided at regular intervals; and a second fastener provided on a remaining surface of the opposite surfaces of the open end and comprising a plurality of ribs provided at regular intervals, so that the ribs of the fasteners are inserted into gaps between the ribs of a remainder of the fasteners.

10 16. The fastening device with the fasteners according to claim 15, further comprising:

an adhesive agent having a predetermined adhesive strength and applied between the ribs of each of the fasteners.

15 17. The fastening device with the fasteners according to claim 15 or 16, wherein the ribs of the fasteners are regular in height.

20 18. The fastening device with the fasteners according to claim 15 or 16, wherein the ribs of each of the fasteners comprise a plurality of rib cells each having a predetermined sectional area, the rib cells being spaced apart from each other by a size thereof.

25 19. A fastening device with fasteners to close an open end, comprising: a first fastener provided on one of opposite surfaces of the open end and comprising at least a pair of rib tracks and a groove track defined between the rib tracks; and a second fastener provided on a remainder of the opposite surfaces of the open end and comprising at least one rib track, so that the rib track of the second fastener engages with the groove track of the first fastener.

30 20. The fastening device with the fasteners according to claim 19, further comprising:

an adhesive agent, having a predetermined adhesive strength, applied to a bottom surface of the groove track.